

IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

Claims 1-2 (canceled)

3. (currently amended) A process as claimed in claim [[1]] 17 wherein the substrate is selected from the group consisting of a glass plate~~[[,]]~~ and a polyester film having a smooth surface and an electrical resistivity of greater than 10^{10} ohm-cm.

4. (currently amended) A process as claimed in claim [[1]] 17 wherein the metallic backing layer comprises a vacuum deposited thin film of a metal selected from the group consisting of gold, platinum and chromium.

5. (currently amended) A process as claimed in claim [[1]] 17 wherein the conducting backing layer is selected from dip-coated carbon and graphite dispersions having inert nature in the potential range of 0 to 1.0 Volts with respect to saturated calomel electrode (SCE).

6. (currently amended) A process as claimed in claim [[2]] 17 wherein the insulating polymer is selected from the group consisting of polyvinyl butyral, polyvinyl acetate and styrene butadiene co-polymer, having adhesion strength higher than 10 g/micron.

7. (previously presented) A process as claimed in claim 6 wherein the insulating polymer is a solution used in a concentration in the range of 1 to 2 wt./v.

8. (currently amended) A process as claimed in claim [[1]] 17 wherein the activating agent is selected from the group consisting of halides of multivalent metals with electronegativity in the range of 1.2 to 1.5.

9. (currently amended) A process as claimed in claim [[1]] 17 wherein the conducting polymer coated substrate is subjected to doping with a doping agent when only the monomer is used.

10. (previously presented) A process as claimed in claim 9 wherein the doping agent contains electron acceptor compounds and is used in a concentration in the range of 0.001 M to 0.1 M.

11. (currently amended) A process as claimed in claim [[1]] 17 wherein the monomer is selected from the group consisting of aromatic and heterocyclic compounds containing nitrogen.

12. (currently amended) A process as claimed in claim [[1]] 17 wherein the monomer is selected from the group consisting of aniline, pyrrole, anisidine and toluediene.

13. (currently amended) A process as claimed in claim [[1]] 17 wherein the coating of the conducting polymer on the metallic or conducting backing layer of the substrate is carried out by dipping the metallic or conducting backing layer of the substrate in an aqueous electrolyte containing 0.1 to 0.5 M hydrogen containing mineral acids together with the monomer and a macrocyclic compound, and by applying a potential of 0.7 to 0.9 Volts.

14. (currently amended) A process as claimed in claim 10 wherein the electron acceptor compounds are [[is]] selected from the group consisting of copper chloride, ferric chloride, cobalt chloride and Lewis acid compounds.

15. (previously presented) A process as claimed in claim 10 wherein the concentration used is in the range of 0.006 M to 0.012 M.

16. (previously presented) A process as claimed in claim 13 wherein the hydrogen containing mineral acid is hydrochloric or sulfuric acid.

17. (previously presented) A process for the preparation of a conducting electrode, which is useful for the electrocatalytic oxidation of alcohols, the process comprising coating an insulating polymer coated substrate with a metallic or conducting backing layer to obtain a metallic or conducting backing layer coated substrate, and electrochemically coating the metallic or conducting backing layer coated substrate with a conducting polymer using a monomer or a mixture of monomer and an activating agent to obtain the conducting electrode.

Claims 18-20 (canceled)